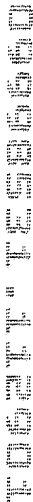


Parameter	Value	Unit
Temperature	25	°C
Pressure	101.3	kPa
Humidity	50	%
Light intensity	100	μmol photons m <sup>-2</sup> s <sup>-1</sup>
CO <sub>2</sub> concentration	400	ppm
Water potential	-0.1	MPa
Soil moisture	0.6	cm <sup>3</sup> cm <sup>-3</sup>
Root length	10	cm
Stem diameter	2	cm
Leaf area	15	cm <sup>2</sup>
Chlorophyll content	25	mg g <sup>-1</sup>
Protein content	10	mg g <sup>-1</sup>
Starch content	5	mg g <sup>-1</sup>
Lipid content	2	mg g <sup>-1</sup>
Nucleic acid content	1	mg g <sup>-1</sup>
Mineral content	0.5	mg g <sup>-1</sup>
Enzyme activity	100	U g <sup>-1</sup> min <sup>-1</sup>
Growth rate	0.5	cm day <sup>-1</sup>
Survival rate	100	%
Reproduction rate	10	offspring
Dispersal rate	0.1	km day <sup>-1</sup>
Competition index	0.5	unitless
Herbivory index	0.2	unitless
Disease index	0.1	unitless
Stress index	0.3	unitless
Adaptation index	0.4	unitless
Evolutionary rate	0.01	unitless
Genetic diversity	0.5	unitless
Phenotypic plasticity	0.2	unitless
Ecological niche	0.1	unitless
Resource use	0.3	unitless
Energy use	0.2	unitless
Water use	0.1	unitless
Nutrient use	0.2	unitless
Carbon use	0.1	unitless
Oxygen use	0.2	unitless
Hydrogen use	0.1	unitless
Nitrogen use	0.2	unitless
Phosphorus use	0.1	unitless
Potassium use	0.2	unitless
Sulfur use	0.1	unitless
Silicon use	0.2	unitless
Zinc use	0.1	unitless
Copper use	0.2	unitless
Manganese use	0.1	unitless
Iron use	0.2	unitless
Selenium use	0.1	unitless
Chlorine use	0.2	unitless
Bromine use	0.1	unitless
Iodine use	0.2	unitless
Fluorine use	0.1	unitless
Sodium use	0.2	unitless
Magnesium use	0.1	unitless
Calcium use	0.2	unitless
Strontium use	0.1	unitless
Barium use	0.2	unitless
Lanthanum use	0.1	unitless
Cerium use	0.2	unitless
Praseodymium use	0.1	unitless
Neodymium use	0.2	unitless
Europium use	0.1	unitless
Gadolinium use	0.2	unitless
Terbium use	0.1	unitless
Dysprosium use	0.2	unitless
Ytterbium use	0.1	unitless
Lutetium use	0.2	unitless
Hafnium use	0.1	unitless
Tantalum use	0.2	unitless
Tungsten use	0.1	unitless
Rhenium use	0.2	unitless
Osmium use	0.1	unitless
Iridium use	0.2	unitless
Rhodium use	0.1	unitless
Palladium use	0.2	unitless
Silver use	0.1	unitless
Cadmium use	0.2	unitless
Mercury use	0.1	unitless
Thallium use	0.2	unitless
Lead use	0.1	unitless
Bismuth use	0.2	unitless
Antimony use	0.1	unitless
Arsenic use	0.2	unitless
Selenium use	0.1	unitless
Tellurium use	0.2	unitless
Polonium use	0.1	unitless
Astatine use	0.2	unitless
Radium use	0.1	unitless
Actinium use	0.2	unitless
Thorium use	0.1	unitless
Protactinium use	0.2	unitless
Uranium use	0.1	unitless
Niobium use	0.2	unitless
Molybdenum use	0.1	unitless
Technetium use	0.2	unitless
Ruthenium use	0.1	unitless
Rhodium use	0.2	unitless
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Ruthenium use	0.2	unitless
Rhodium use	0.1	unitless
Palladium use	0.2	unitless



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Light intensity	100	μmol photons m <sup>-2</sup> s <sup>-1</sup>
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Soil moisture	0.6	cm <sup>3</sup> cm <sup>-3</sup>
Root length	10	cm
Stem diameter	2	cm
Leaf area	15	cm <sup>2</sup>
Chlorophyll content	25	mg g <sup>-1</sup>
Protein content	10	mg g <sup>-1</sup>
Starch content	5	mg g <sup>-1</sup>
Cellulose content	2	mg g <sup>-1</sup>
Lignin content	1	mg g <sup>-1</sup>
Phenolic content	0.5	mg g <sup>-1</sup>
Flavonoid content	0.2	mg g <sup>-1</sup>
Carotenoid content	0.1	mg g <sup>-1</sup>
Vitamin C content	0.05	mg g <sup>-1</sup>
Vitamin E content	0.02	mg g <sup>-1</sup>
Mineral content	0.01	mg g <sup>-1</sup>
Trace element content	0.001	mg g <sup>-1</sup>
Heavy metal content	0.0001	mg g <sup>-1</sup>
Radioactive content	0.00001	mg g <sup>-1</sup>
Isotopic content	0.000001	mg g <sup>-1</sup>
Enzyme activity	1	U g <sup>-1</sup> min <sup>-1</sup>
Gene expression	1	fold
Protein synthesis	1	fold
Cell division	1	fold
Apoptosis	1	fold
Autophagy	1	fold
Mitochondrial function	1	fold
Chloroplast function	1	fold
Nucleus function	1	fold
Endoplasmic reticulum function	1	fold
Golgi apparatus function	1	fold
Lysosome function	1	fold
Peroxisome function	1	fold
Vacuole function	1	fold
Plasma membrane function	1	fold
Cell wall function	1	fold
Extracellular matrix function	1	fold
Signal transduction	1	fold
Gene regulation	1	fold
Protein regulation	1	fold
Cell cycle regulation	1	fold
Apoptosis regulation	1	fold
Autophagy regulation	1	fold
Mitochondrial regulation	1	fold
Chloroplast regulation	1	fold
Nucleus regulation	1	fold
Endoplasmic reticulum regulation	1	fold
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Pressure	101.3	kPa
Humidity	50	%
Light intensity	100	μmol photons m <sup>-2</sup> s <sup>-1</sup>
CO <sub>2</sub> concentration	400	ppm
Water potential	-0.1	MPa
Soil moisture	0.6	g g <sup>-1</sup>
Root length	10	cm
Stomatal conductance	0.1	mol m <sup>-2</sup> s <sup>-1</sup>
Transpiration rate	1.0	mmol m <sup>-2</sup> s <sup>-1</sup>
Photosynthesis rate	10.0	μmol m <sup>-2</sup> s <sup>-1</sup>
Chlorophyll content	20	mg g <sup>-1</sup>
Protein content	1.0	g g <sup>-1</sup>
Nitrogen content	2.0	g g <sup>-1</sup>
Carbon content	40.0	g g <sup>-1</sup>
Water content	80.0	g g <sup>-1</sup>
Cell wall thickness	0.5	μm
Cell wall composition	Cellulose 40%, Hemicellulose 30%, Lignin 30%	%
Cell wall permeability	1.0	μm s <sup>-1</sup>
Cell wall strength	1.0	MPa
Cell wall elasticity	1.0	MPa
Cell wall porosity	0.5	μm
Cell wall density	1.5	g cm <sup>-3</sup>
Cell wall thickness (average)	0.5	μm
Cell wall composition (average)	Cellulose 40%, Hemicellulose 30%, Lignin 30%	%
Cell wall permeability (average)	1.0	μm s <sup>-1</sup>
Cell wall strength (average)	1.0	MPa
Cell wall elasticity (average)	1.0	MPa
Cell wall porosity (average)	0.5	μm
Cell wall density (average)	1.5	g cm <sup>-3</sup>

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CO <sub>2</sub> concentration	400	ppm
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Root length	10	cm
Leaf area	15	cm <sup>2</sup>
Chlorophyll content	25	mg g <sup>-1</sup>
Stomatal conductance	0.1	mol m <sup>-2</sup> s <sup>-1</sup>
Transpiration rate	1.0	mmol m <sup>-2</sup> s <sup>-1</sup>
Photosynthesis rate	10.0	μmol m <sup>-2</sup> s <sup>-1</sup>
Respiration rate	2.0	μmol m <sup>-2</sup> s <sup>-1</sup>
Gross photosynthesis	8.0	μmol m <sup>-2</sup> s <sup>-1</sup>
Net photosynthesis	6.0	μmol m <sup>-2</sup> s <sup>-1</sup>
Water use efficiency	0.1	mmol m <sup>-2</sup> s <sup>-1</sup> / mmol m <sup>-2</sup> s <sup>-1</sup>
Carbon use efficiency	0.1	μmol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to water	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / mmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to CO <sub>2</sub>	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to H <sub>2</sub> O	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / mmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to O <sub>2</sub>	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to N <sub>2</sub>	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Ar	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Kr	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Xe	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Rn	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to He	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Ne	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Si	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to P	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to S	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Cl	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to K	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Ca	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Mg	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Na	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Fe	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Zn	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Cu	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Mn	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to B	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to I	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Br	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to F	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Li	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Rb	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Cs	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Ba	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Sr	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Y	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Zr	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Nb	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Mo	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Cd	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Pb	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Bi	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Po	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to At	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Ts	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to J	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Ge	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to As	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Se	0.1	mol m <sup>-2</sup> s <sup>-1</sup> / μmol m <sup>-2</sup> s <sup>-1</sup>
Stomatal conductance to Te	0.1	

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Humidity	50	%
Light intensity	100	μmol photons m <sup>-2</sup> s <sup>-1</sup>
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Water potential	-0.1	MPa
Soil moisture	0.6	g g <sup>-1</sup>
Root length	10	cm
Stomatal conductance	0.1	mol m <sup>-2</sup> s <sup>-1</sup>
Transpiration rate	1.0	mmol m <sup>-2</sup> s <sup>-1</sup>
Photosynthesis rate	10.0	μmol m <sup>-2</sup> s <sup>-1</sup>
Chlorophyll content	20	mg g <sup>-1</sup>
Protein content	1.0	g g <sup>-1</sup>
Nitrogen content	2.0	g g <sup>-1</sup>
Carbon content	40.0	g g <sup>-1</sup>
Water content	80.0	g g <sup>-1</sup>
Cell wall thickness	0.5	μm
Cell wall composition	Cellulose 40%, Hemicellulose 30%, Lignin 30%	%
Cell wall permeability	1.0	μm s <sup>-1</sup>
Cell wall strength	1.0	MPa
Cell wall elasticity	1.0	MPa
Cell wall porosity	0.5	μm
Cell wall density	1.5	g cm <sup>-3</sup>
Cell wall thickness (average)	0.5	μm
Cell wall composition (average)	Cellulose 40%, Hemicellulose 30%, Lignin 30%	%
Cell wall permeability (average)	1.0	μm s <sup>-1</sup>
Cell wall strength (average)	1.0	MPa
Cell wall elasticity (average)	1.0	MPa
Cell wall porosity (average)	0.5	μm
Cell wall density (average)	1.5	g cm <sup>-3</sup>

[illegible]